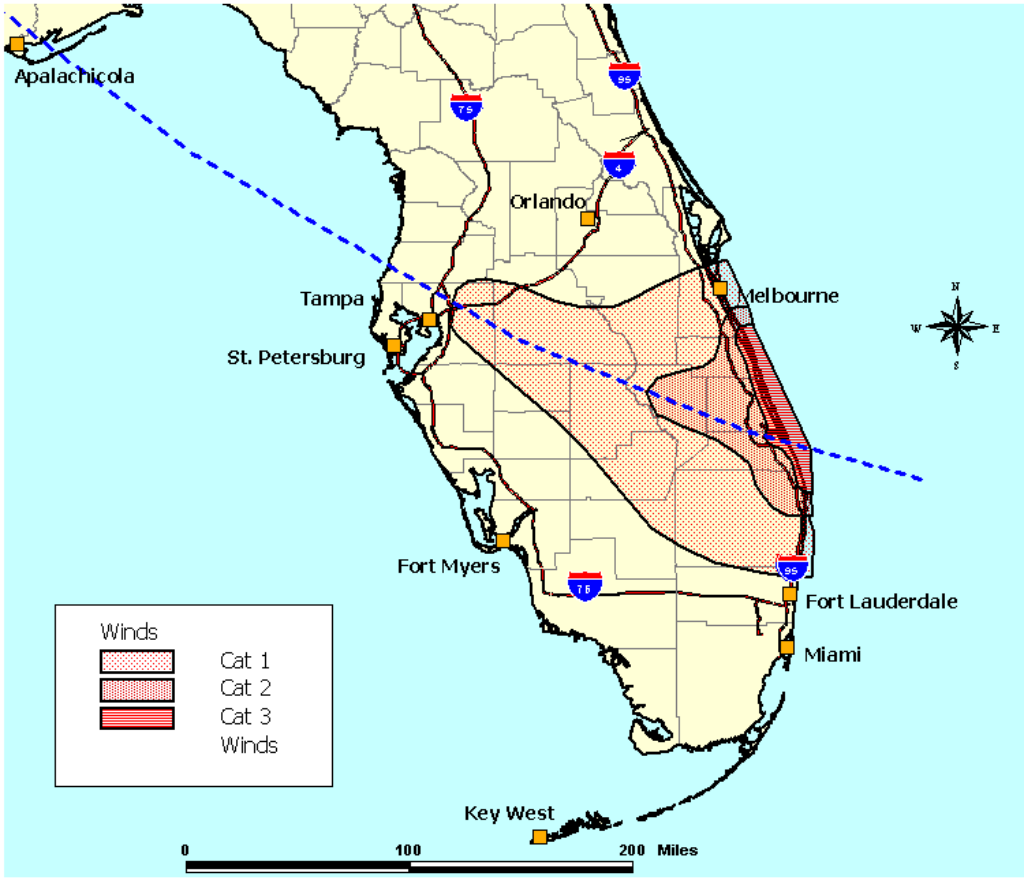
Hurricane Frances Wind Distribution

Landfall Expected Within About 6 Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Wind Field

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

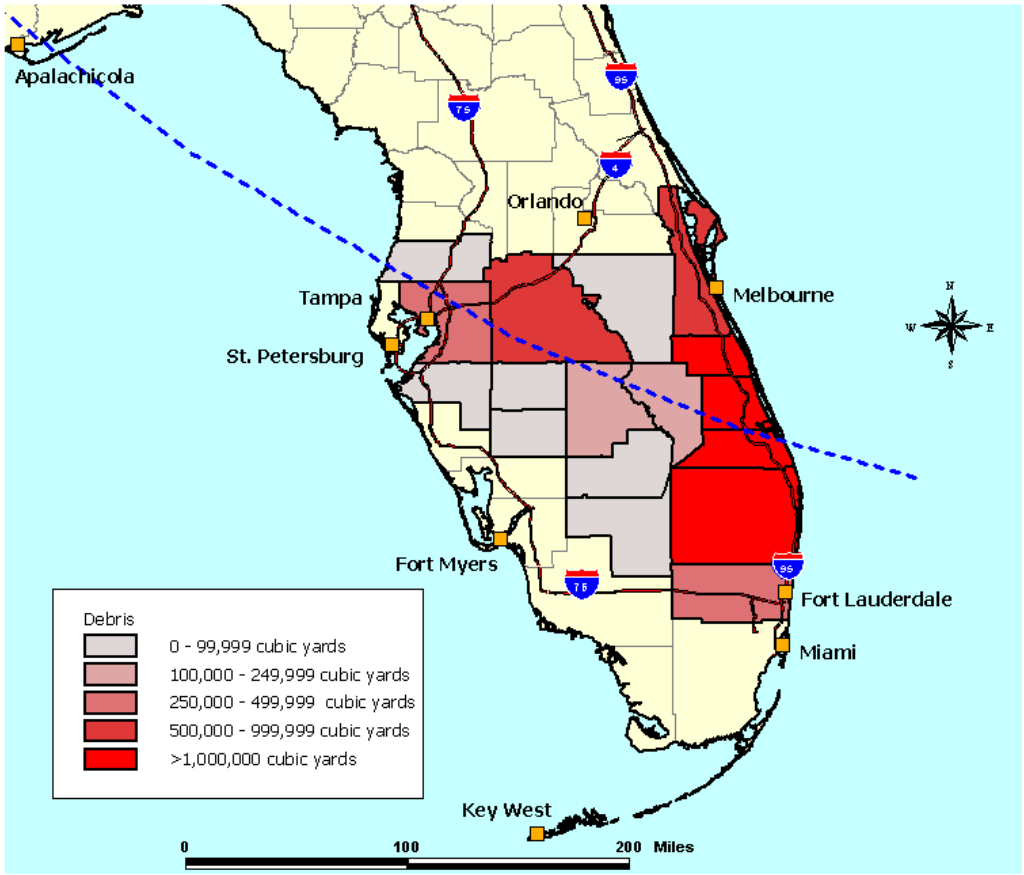
Generated By:
Terry Siemsen

Generated Date:
1730 EDT
09/04/2004

Hurricane Frances Debris Model

Landfall Expected Within About **6** Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 16,336,000 yd^3

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date:
1730 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Debris Model

Landfall Expected Within About 6 Hours

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State	County	Yards per County
Florida		
	Brevard	696,000
	Broward	351,000
	De Soto	5,000
	Glades	12,000
	Hardee	26,000
	Hendry	22,000
	Highlands	165,000
	Hillsborough	390,000
	Indian River	2,300,000
	Manatee	< 1,000
	Martin	2,650,000
	Okeechobee	185,000
	Osceola	28,000
	Palm Beach	5,500,000
	Pasco	56,000
	Polk	750,000
	St Lucie	3,200,000
TOTAL		16,336,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Debris Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

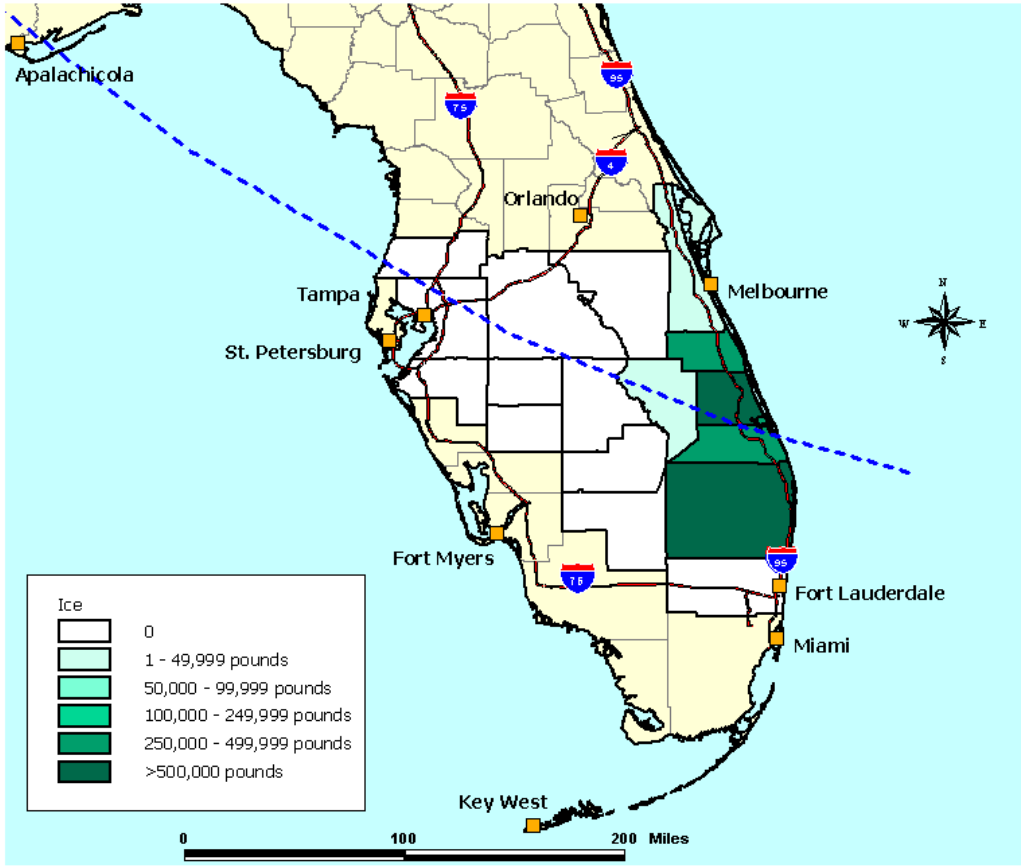
Generated Date:
1730 EDT
09/04/2004

CELRL-OP GIS Group

Hurricane Frances Ice Model

Landfall Expected Within About 6 Hours

For Official Use Only!



Most Probable Landfall Ice Model Results

Florida – 2,206,000 pounds

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Ice Model

Landfall Expected Within About 6 Hours

For Official Use Only!

State	County	Pounds per County
Florida		
	Brevard	30,000
	Indian River	380,000
	Martin	452,000
	Okeechobee	41,000
	Palm Beach	693,000
	St Lucie	610,000
TOTAL		2,206,000

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

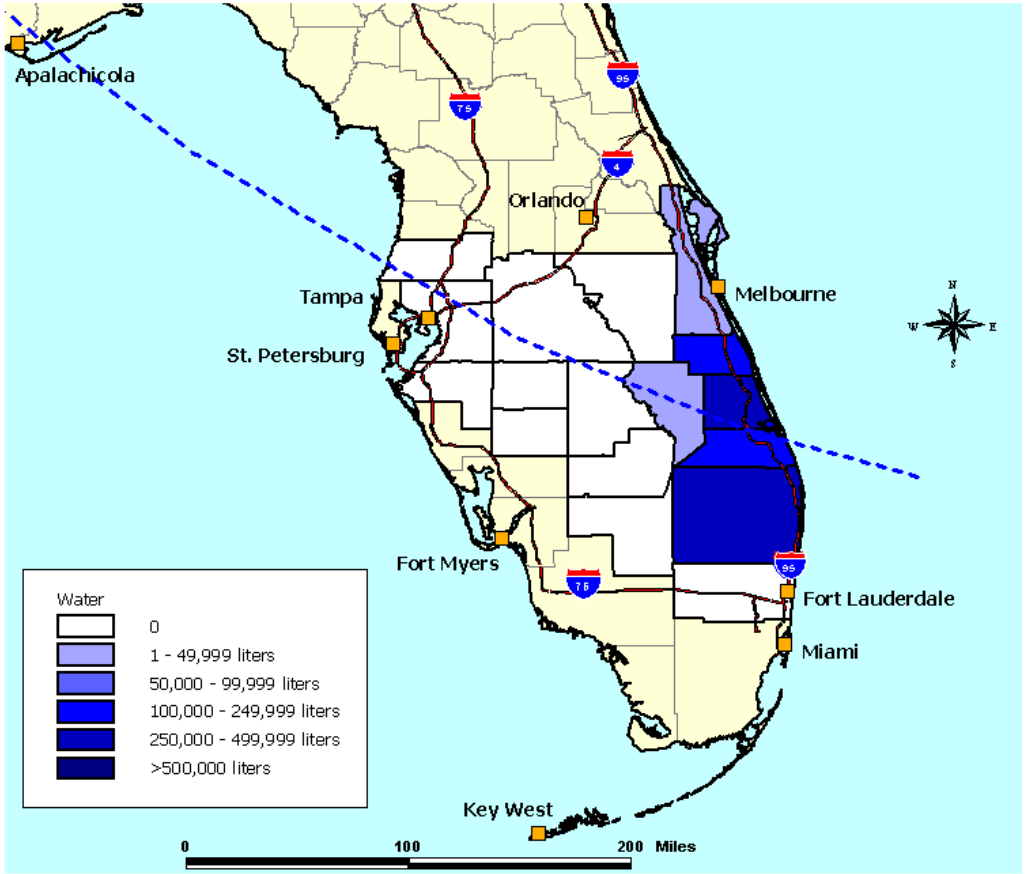
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Water Model

Landfall Expected Within About 6 Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida – 1,184,000 liters

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

CELRL-OP GIS Group

Hurricane Frances Water Model

Landfall Expected Within About 6 Hours

For Official Use Only!

State	County	Liters per County
Florida		
	Brevard	15,000
	Indian River	191,000
	Martin	236,000
	Okeechobee	22,000
	Palm Beach	385,000
	St Lucie	335,000
TOTAL		1,184,000

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Frances will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

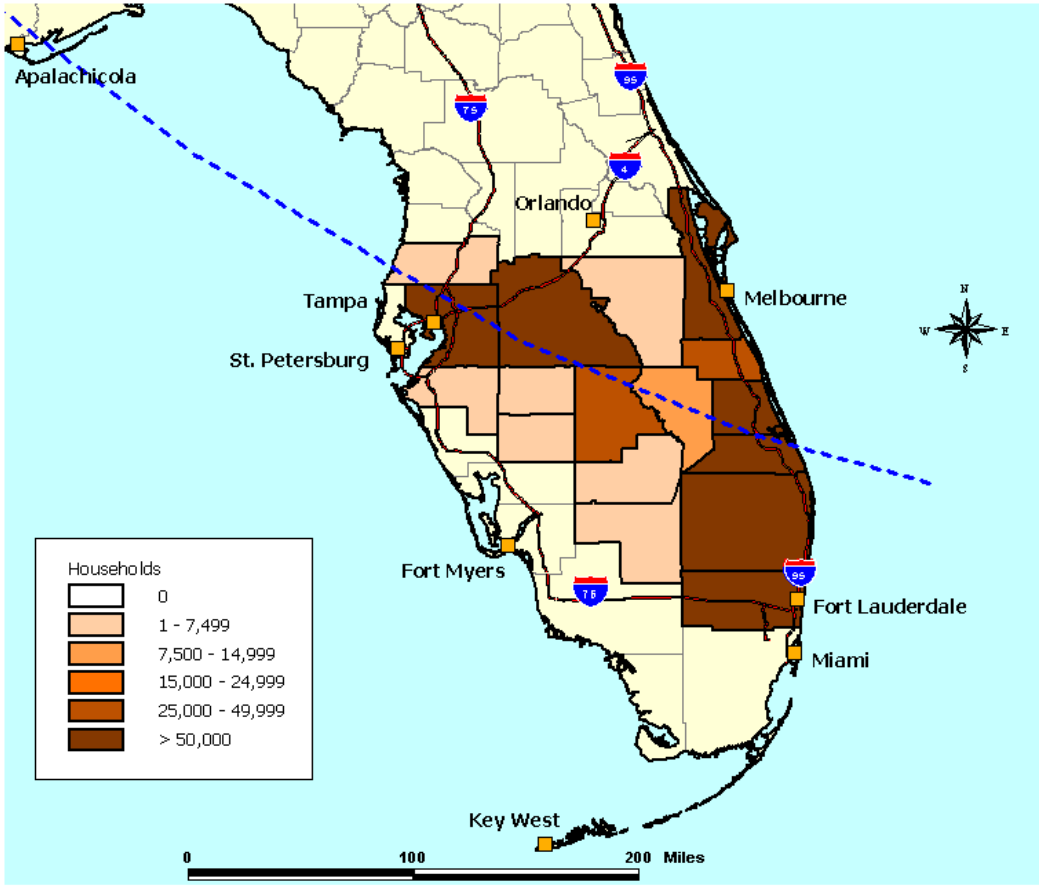
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Households Model

Landfall Expected Within About 6 Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 1,142,000 households

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Households Model

Landfall Expected Within About 6 Hours

For Official Use Only!

State	County	Households
Florida		
	Brevard	112,000
	Broward	68,000
	De Soto	< 1,000
	Glades	3,000
	Hardee	6,000
	Hendry	5,000
	Highlands	37,000
	Hillsborough	85,000
	Indian River	49,000
	Manatee	< 1,000
	Martin	55,000
	Okeechobee	13,000
	Osceola	1,000
	Palm Beach	472,000
	Pasco	1,000
	Polk	158,000
	St Lucie	77,000
TOTAL		1,142,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

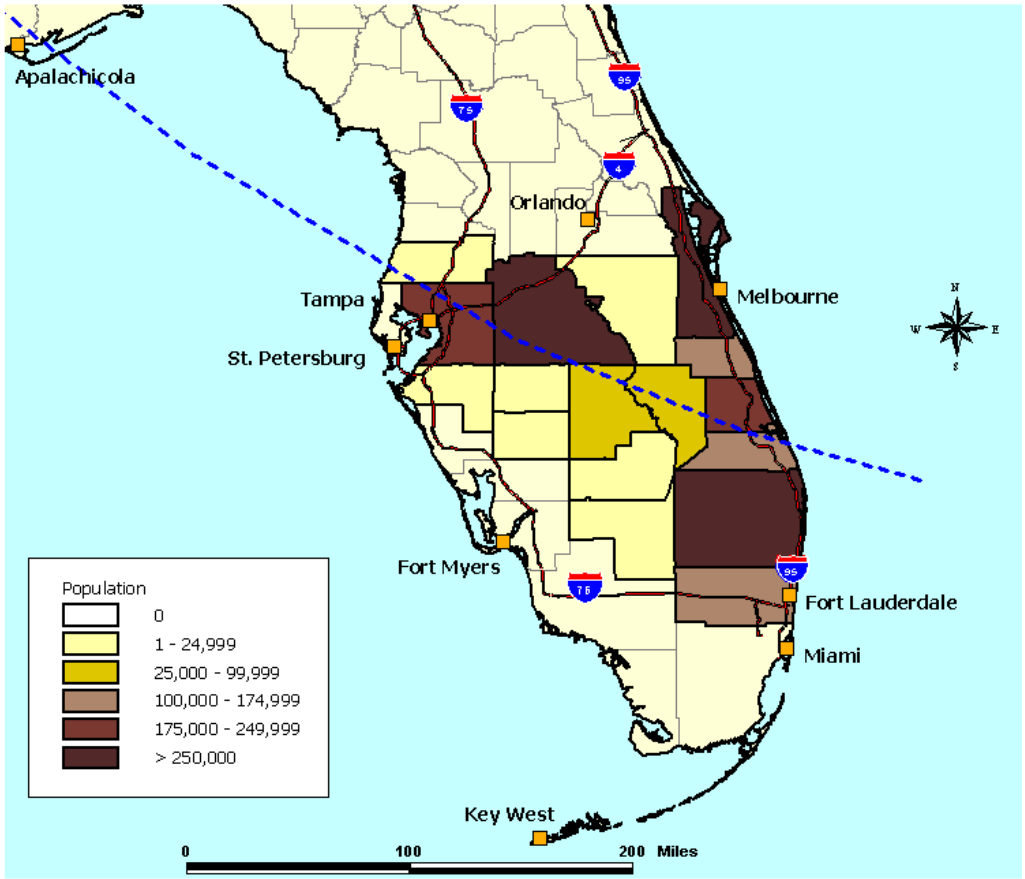
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Expected Within About 6 Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 2,805,000 persons

Model results per county on following page

This hurricane scenario is based on a High Category 2 – Low Category 3 storm making landfall in near proximity to Stuart, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 09/04/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
09/04/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Frances Population Model

Landfall Expected Within About 6 Hours

For Official Use Only!

State	County	Population
Florida		
	Brevard	269,000
	Broward	166,000
	De Soto	1,000
	Glades	7,000
	Hardee	18,000
	Hendry	15,000
	Highlands	86,000
	Hillsborough	239,000
	Indian River	112,000
	Manatee	< 1,000
	Martin	126,000
	Okeechobee	36,000
	Osceola	3,000
	Palm Beach	1,126,000
	Pasco	3,000
	Polk	405,000
	St Lucie	193,000
TOTAL		2,805,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Frances Population Model

Sources:
HURREVAC
LRL-DEBRIS

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09/04/2004